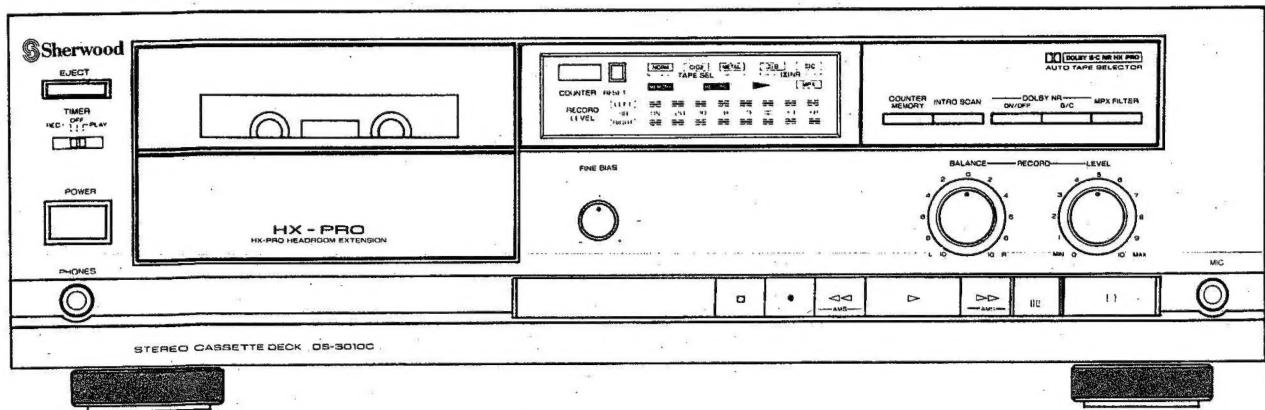


SERVICE MANUAL

DS-3010C STEREO CASSETTE DECK



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S Sherwood

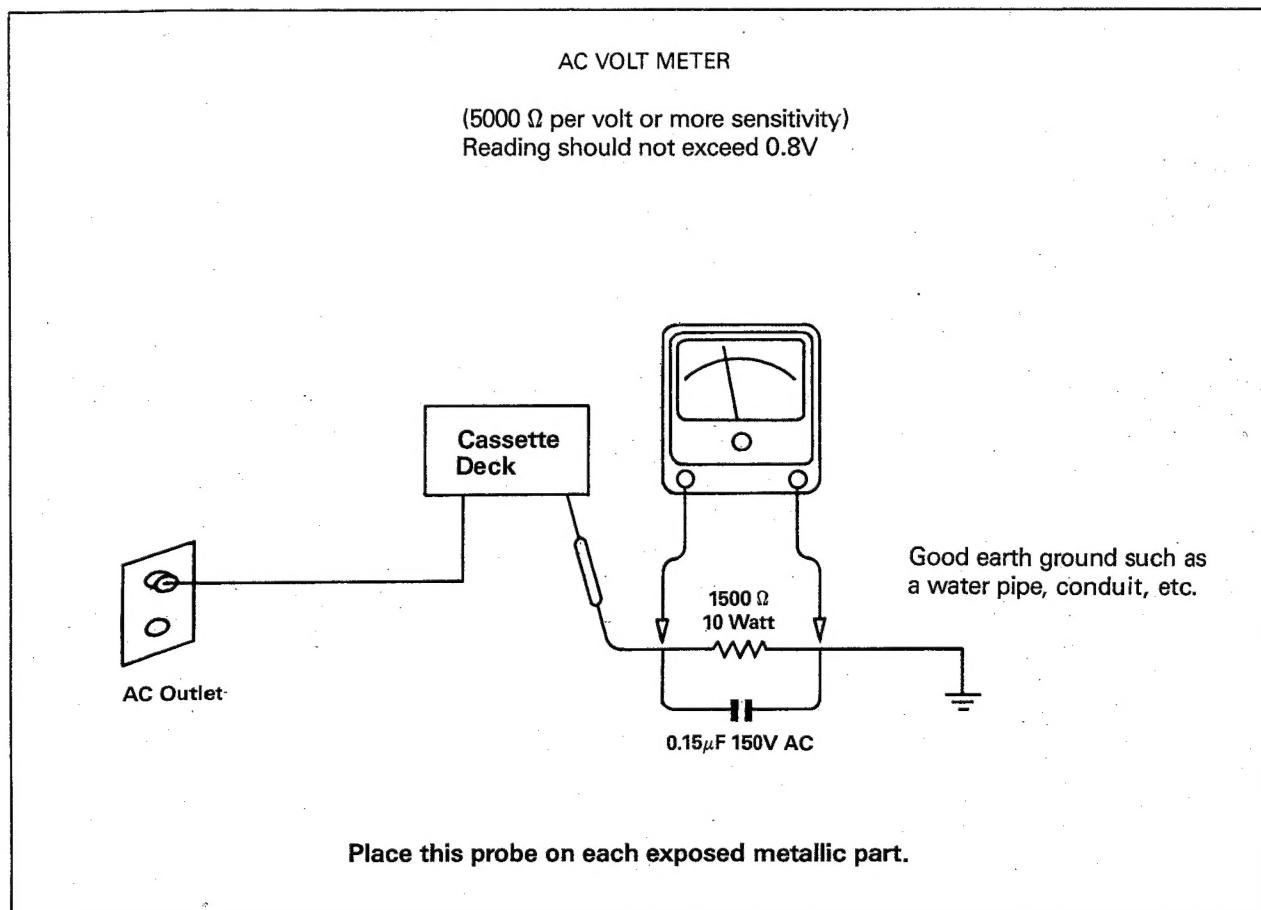
Safety Precaution

WARNING

Service should not be attempted by anyone unfamiliar with the necessary precautions on this player. The following precautions are necessary during servicing.

1. Many electrical and mechanical parts in this player have special characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristic are identified in this manual and its supplements: electrical components having such features are identified by a \triangle in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire or other hazards.
2. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as

terminals, screwheads, metal overlays, etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 120V AC outlet (**120V Version only**). (Do not use a line isolation transformer during this check.) Use an AC voltmeter having 5000 Ω per volt or more sensitivity in the following manner: Connect a 1500 Ω 10 watt resistor paralleled by a 0.15 μ F, 150V AC capacitor, between a known good earth ground (water pipe, conduct, etc) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 Ω resistor and 0.15 μ F capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts RMS. This corresponds to 0.2mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



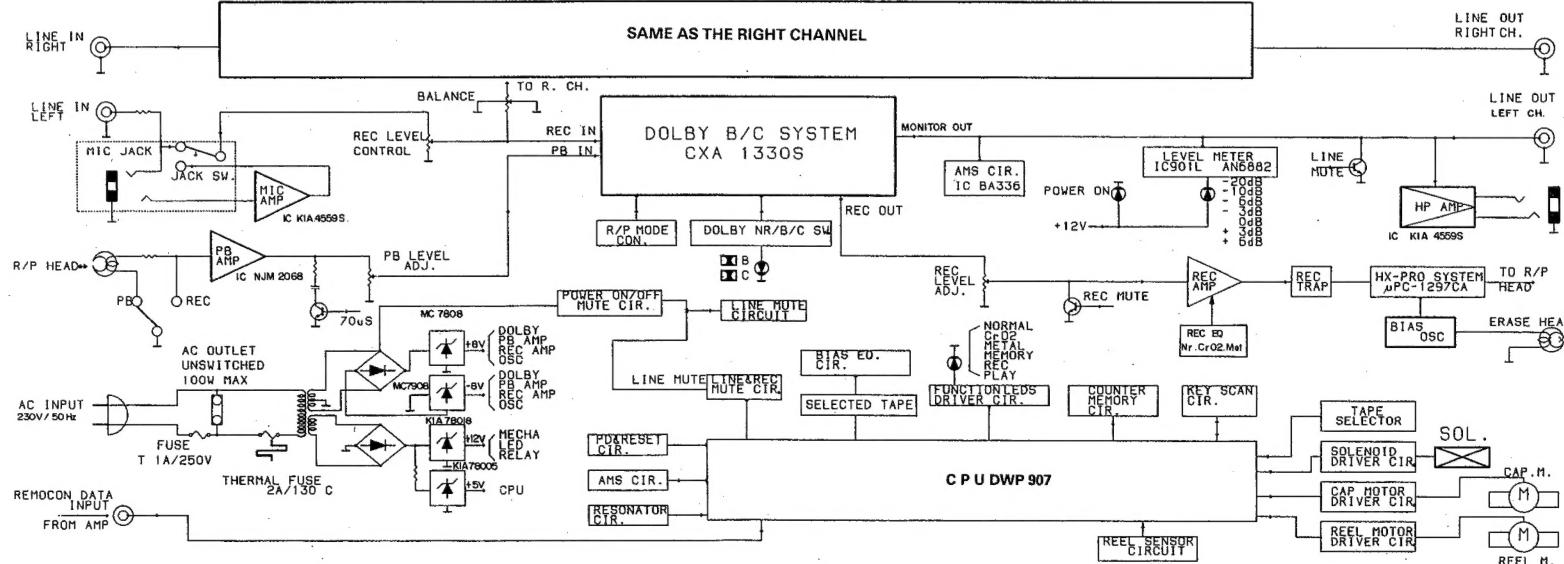
Specifications

Type	Logic front loading stereo cassette deck with *Dolby B/C NR HX-PRO system
Track system	4 track, 2 channel stereo recording/playback
Recording system	AC bias system (Bias frequency: 85kHz)
Erasing system	AC system
Tape speed	1-7/8 ips (4.76 cm/s)
Heads	Hard permalloy Hyperbolic recording/playback head×1 Double gap erasing head×1
Motor	1-Electronic governor controlled DC motor, 1-High Torque DC Motor (Reel)
Mechanism	2-Motor, 1-Solenoid Mechanism
Fast winding Time	Approx. 120 seconds with C-60 cassette tape
Frequency Response at -20dB Rec/PB	<ul style="list-style-type: none"> • Normal : 30-18,000Hz 35-17,500Hz at ±3dB • CrO₂ : 30-18,500Hz 35-18,000Hz at ±3dB • Metal : 30-19,000Hz 30-18,500Hz at ±3dB
Dolby NR off	Metal tape 30-16,000Hz at ±3dB
0dB Rec/PB	<ul style="list-style-type: none"> • Dolby NR off 55dB at Normal tape (weighted) 56dB at CrO₂ tape 57dB at Metal tape • Dolby B NR 64dB at Normal tape (weighted) 65dB at CrO₂ tape 66dB at Metal tape • Dolby C NR 73dB at Normal tape (weighted) 74dB at CrO₂ tape 76dB at Metal tape
Signal to noise ratio at Rec/PB	
Third harmonic distortion	Less than 1.0% at 1kHz, 0dB Rec/PB
Input sensitivity/impedance	Line 80mV/47kΩ, MIC 0.4mV/4 ohms
Output level/impedance;	Line 500mV/1.5kΩ Headphone 700mV at load 600Ω
Power consumption	25W
Power requirements;	<ul style="list-style-type: none"> (A): 120V 60Hz for USA/Canadian version (B): 120/220V 60/50Hz for multi-voltage version (switchable) (C): 220V 50Hz for general European version (D): 220V 50Hz for west Germanian & Italian version (E): 240V 50Hz for British & Australian version (F): 220V 50Hz for Swiss & Scandinavian version
Dimensions;	440(W)×125(H)×245(D) mm 17.3(W)×4.9(H)×9.6(D) inch
Weight (Net)	4.6 kg (10.1 lbs)

Note: Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the European standard, and provides information on regional circuit modification through use of alternate schematic diagram, and information on regional component variations though use of parts list. Design and Specifications subject to change without notice for improvement.

Block Diagram

4



Alignment Procedures

1. Before Measurements and Adjustment

The following general conditions apply to the electrical measurements and adjustments unless especially stated otherwise.

- Dolby NR push switch off.
- Volume control: Recording level VR301L/R max.
- Valance volume VR901 center.
- Use 500mV (200nwb/m) for 0dB as the standard level of the unit.
- Test tape
 - TCC-155 Azimuth (14kHz, -20dB)
 - TCC-112 Tape speed (3.15kHz, -10dB)
 - TCC-130 Playback level (Dolby ref. tape 400Hz, 0dB)
 - TCC-184 Playback freq. response
- Reference Tape
 - Normal TDK AD-60
 - CrO₂ TDK SA-60
 - Metal TDK MAX-60

Playback Section

Adjustments	Test tape	Mode	Apply Signal to	Measure on	Read on	Adjust with	Adjust to
Head Azimuth	TCC-155 14 kHz (A.BEX)	Play		Line output	ACmV-meter Oscilloscope	Head adjusting screw (left side)	Max. *a • Lissajous' figure become a straight line with an angle 45 degrees
Tape Speed	TCC-112 3.15kHz -10dB (A.BEX)	Play		Line output	Wow and Flutter Meter & Frequency Counter	The inner VR Motor	Approx. center position 3.15kHz ± 15Hz *b
Playback Level	TCC-130 400Hz 0dB (A.BEX)	Play		Line output	ACmV-meter Oscilloscope	VR101L/R	500mV
Playback frequency response	TCC-184 (A.BEX)	Play		Line output	ACmV-meter Oscilloscope		See graph Fig.2 freq. response

Recording Section

Adjustments	Test tape	Mode	Apply Signal to	Measure on	Read on	Adjust with	Adjust to
Bias OSC Frequency	MAX-60 (TDK)	Rec/Pause		White color lead wire of CNT202	Frequency Counter	OSC L501	85kHz, red colour
85kHz trap suppression	MAX-60 (TDK)	Rec/Pause		3J75 3J129	ACmV-meter Oscilloscope	L200L/R	Minimize the reading on ACVM
Target value Bias	Metal MAX-60	Rec/Pause		3J84 3J85	ACmV-meter Oscilloscope	VR281	9.4 mV
	CrO ₂ SA-60					VR282	6.3mV
	Normal AD-60					VR251L/R	4.1mV

Adjustments	Test tape	Mode	Apply Signal to	Measure on	Read on	Adjust with	Adjust to	
Recording Level	AD-60 (TDK)	Source	400Hz to Line	Line output	ACmV-meter Oscilloscope	LF generator	500mV *c	
		Tape Rec/Pause				VR201L/R		
Bias		Tape Rec/Pause	400Hz to Line	Line output	ACmV-meter	See target value bias	See Fig. 3 *d if it necessary repeat bias adjust.	
			4kHz-6.3kHz 10kHz-12kHz 14kHz-16kHz to line in		Record/Playback a number of frequency with the same input voltage.			
Level meter	Arbitrary tape	Source	400Hz to Line in	0 Level Point	ACmV-meter Oscilloscope	VR101L/R	0 mark	
19kHz Suppression	Arbitrary tape	Rec/Pause	400Hz to Line in	Line output		LF generator	500mV	
			19kHz to Line in			MPXL151L/R	Minimize the reading on ACVM	

Note:

- *a. Prior to any measurement or adjustment with the tape running heads and tape guides should be degaussed and cleaned. Confer see Figure Electrical Adjustment Point.
- *b. The max permissible speed variation $\pm 1\text{dB}$. Moreover the wow and flutter can be read. This value should not exceed 0.1%.
- *c. The voltage on line out should read $500\text{mV} \pm 20\text{mV}$. If this is not the case reduce the LF signal (bias disabled by as many dB's as the reading was too low or too high means of VR101L/R).
- *d. When the channel is adjusted this may slightly affect the adjustment of the other channel. If the adjustment is correct the frequency response curve will be similar in Fig. 4 distortion 3%.

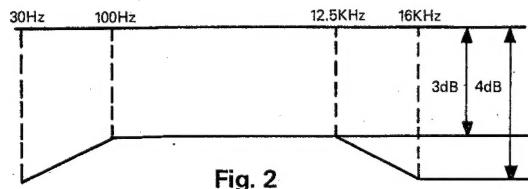


Fig. 2

	f1	f2	f3	f4
Metal	30Hz	100Hz	12.5kHz	15.5kHz
CrO ₂	30Hz	100Hz	12.5kHz	15.0kHz
Normal	30Hz	100Hz	12.5kHz	15.0kHz

Fig. 3

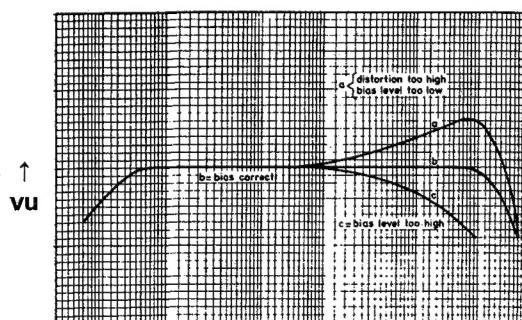
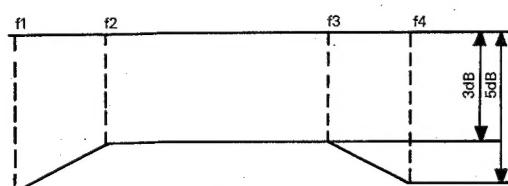
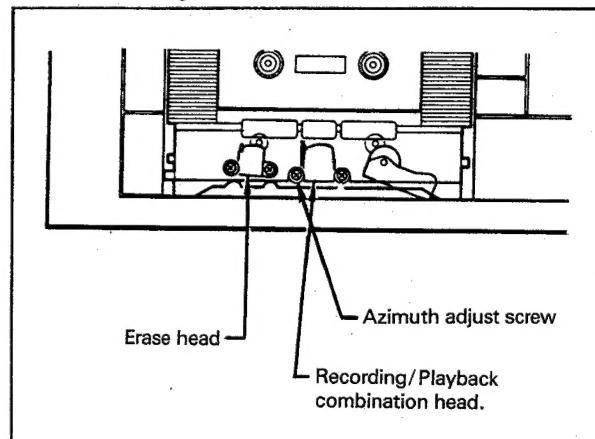


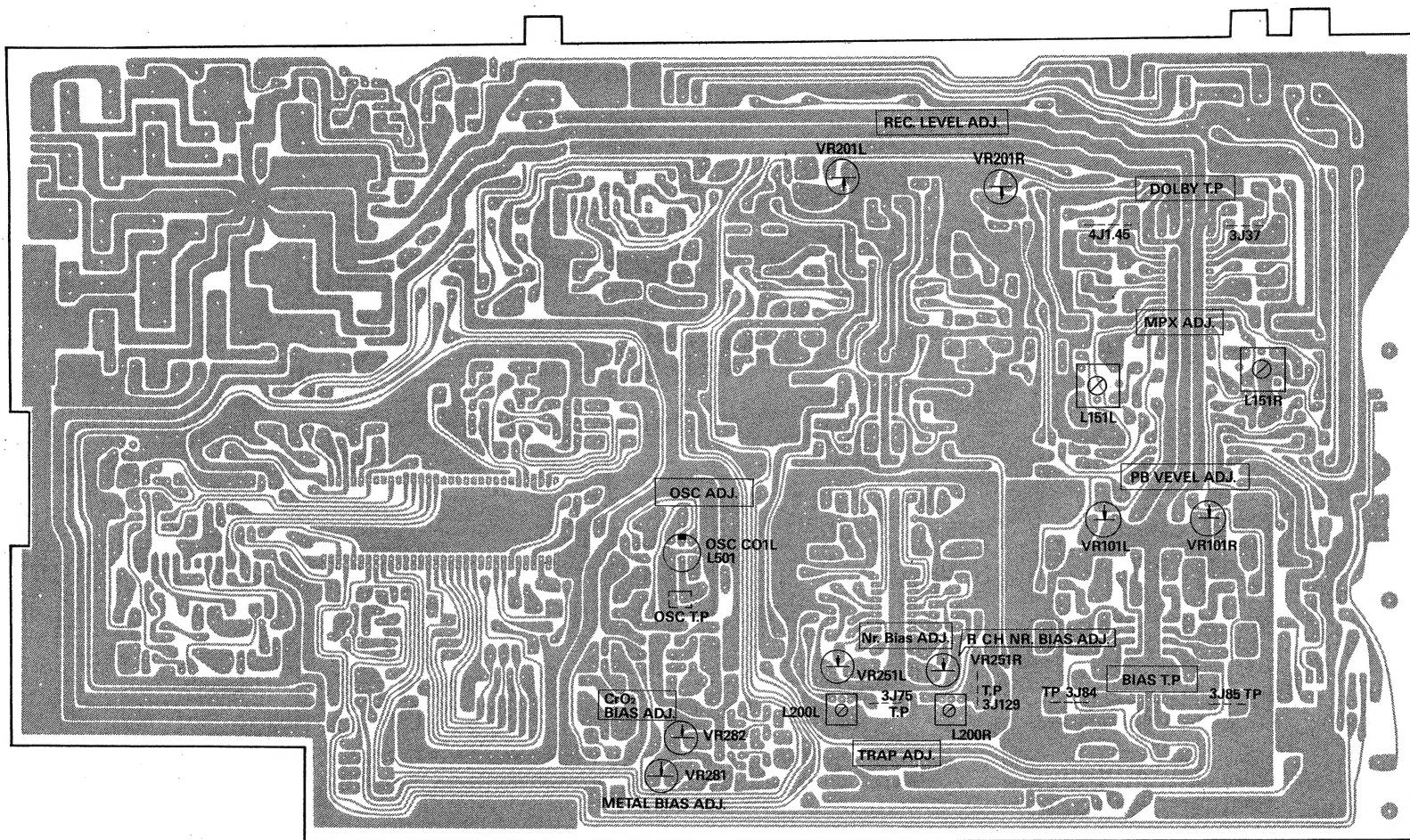
Fig. 4

Frequency → f

Azimuth Adjustment Point

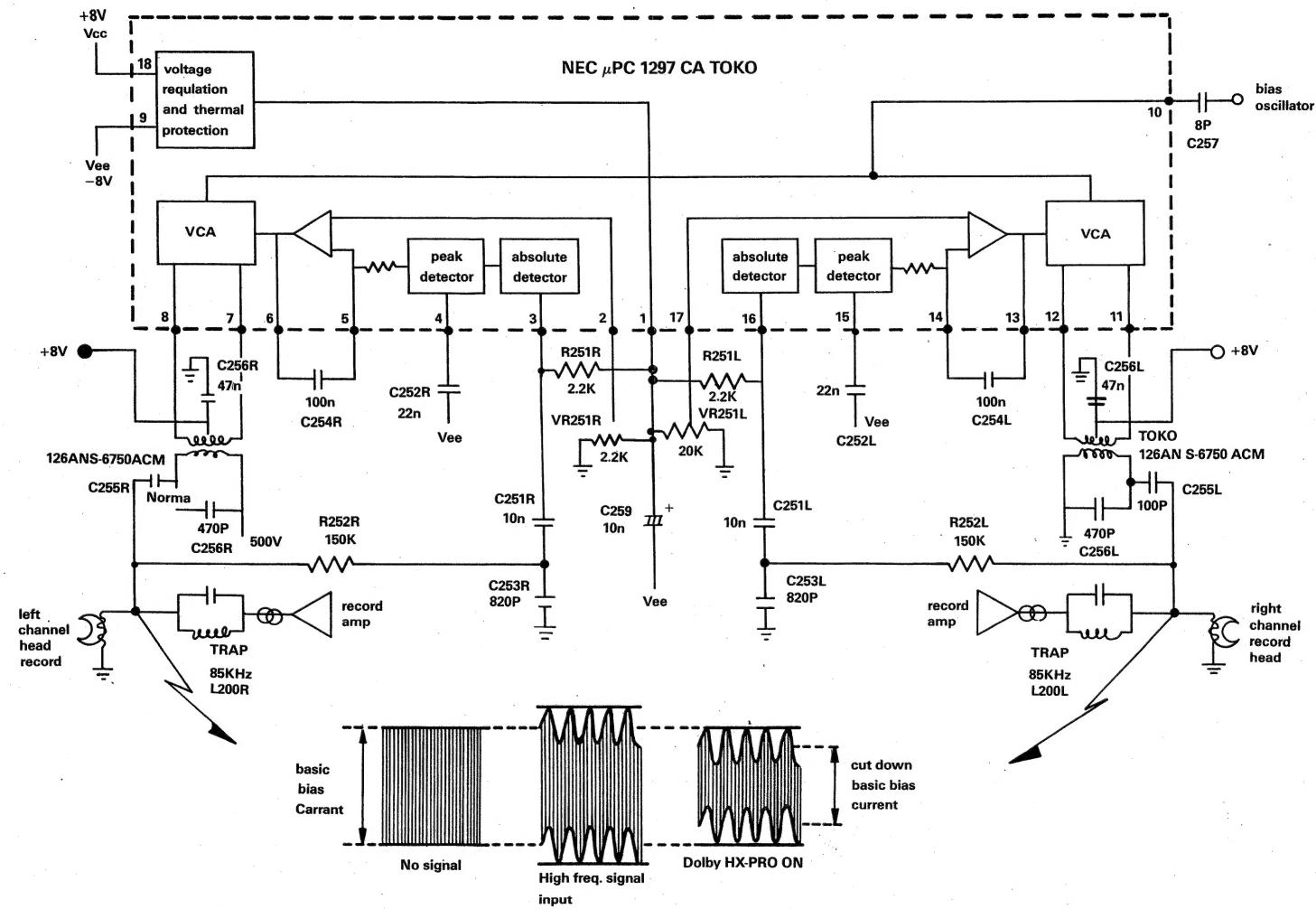


Alignment point



Integrated Circuit Implementation with μ PC 1297 CA: IC251

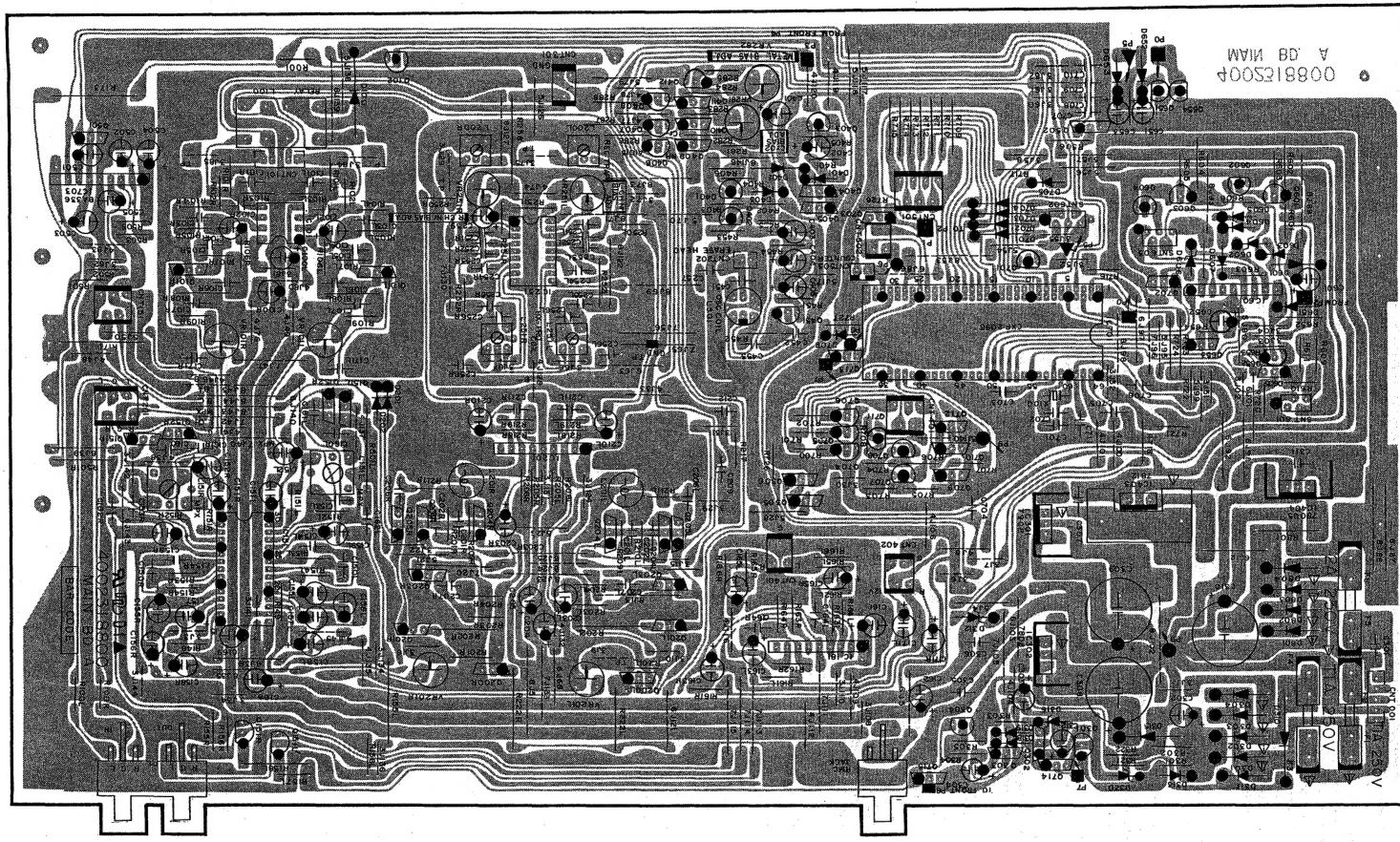
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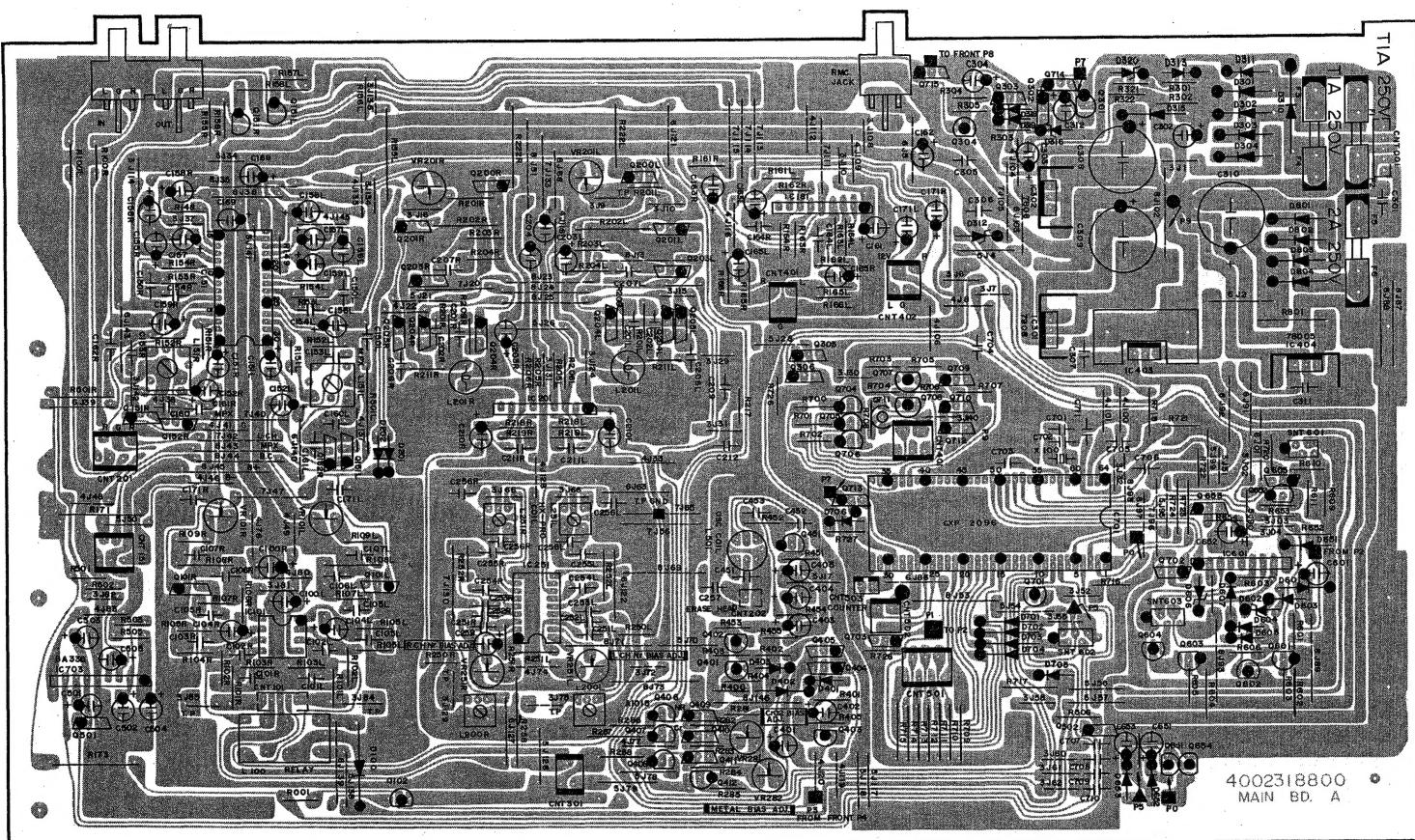


P.C. Boards (*Top & Bottom Views*)

MAIN P.C. BOARD 4002318800

(TOP VIEW)

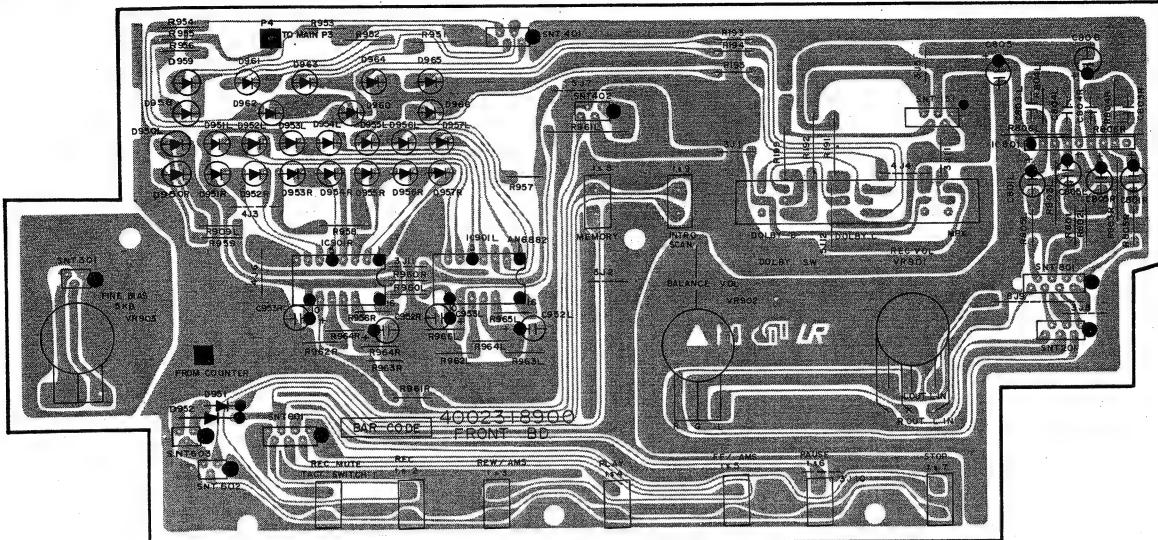




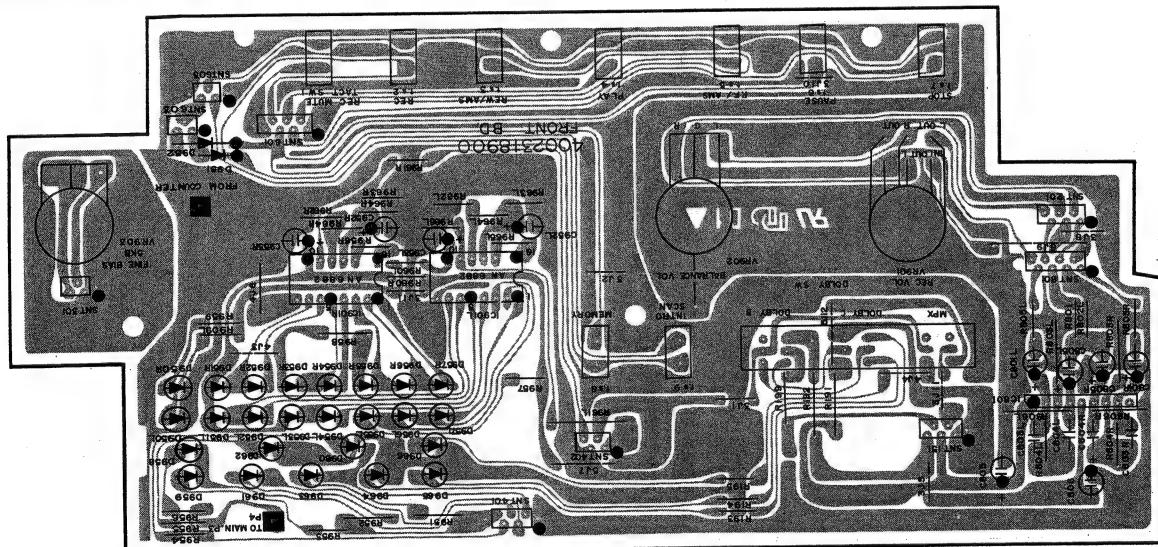
(Bottom View)

FRONT P.C. BOARD 4002318900

(TOP VIEW)

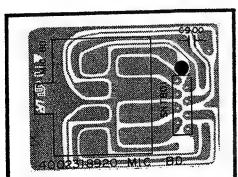


(BOTTOM VIEW)

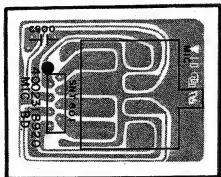


MIC P.C. BOARD 4002318920

(TOP VIEW)

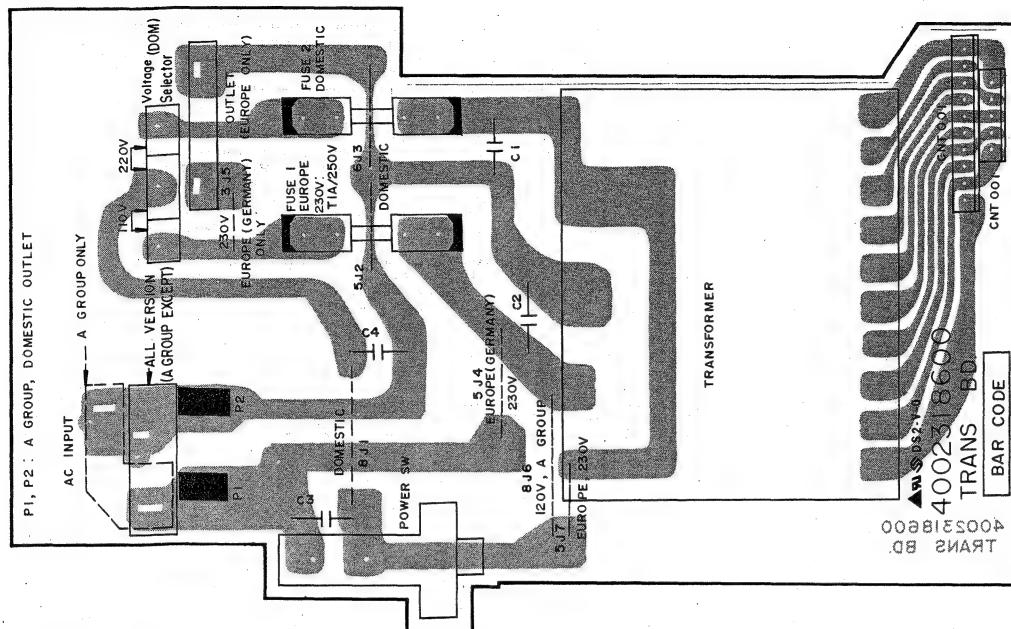


(BOTTOM VIEW)

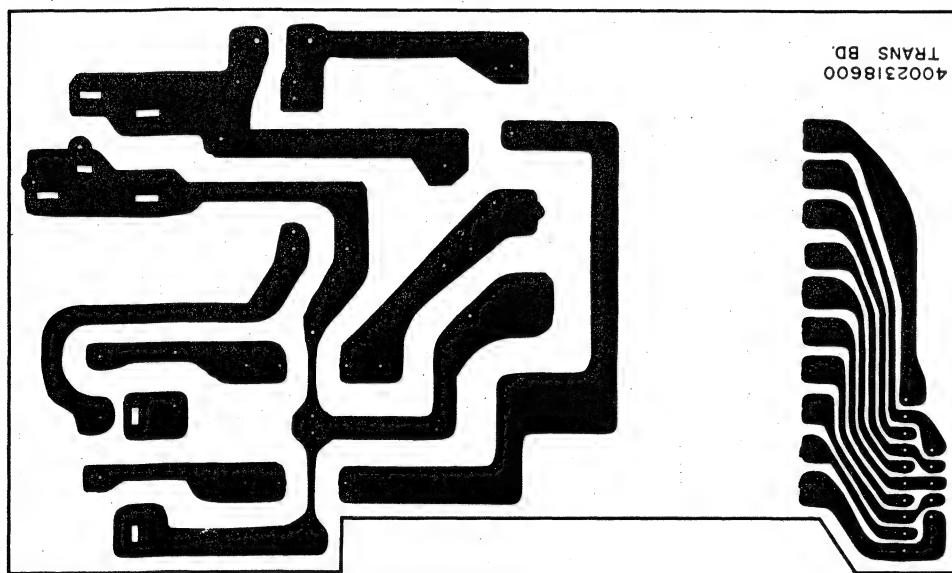


TRANS P.C. BOARD 4002318600

(TOP VIEW)

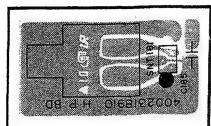


(BOTTOM VIEW)

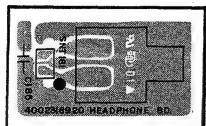


H.P P.C. BOARD 4002318910

(TOP VIEW)

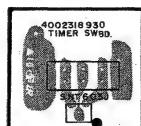


(BOTTOM VIEW)



TIMER SW P.C. BOARD 4002318930

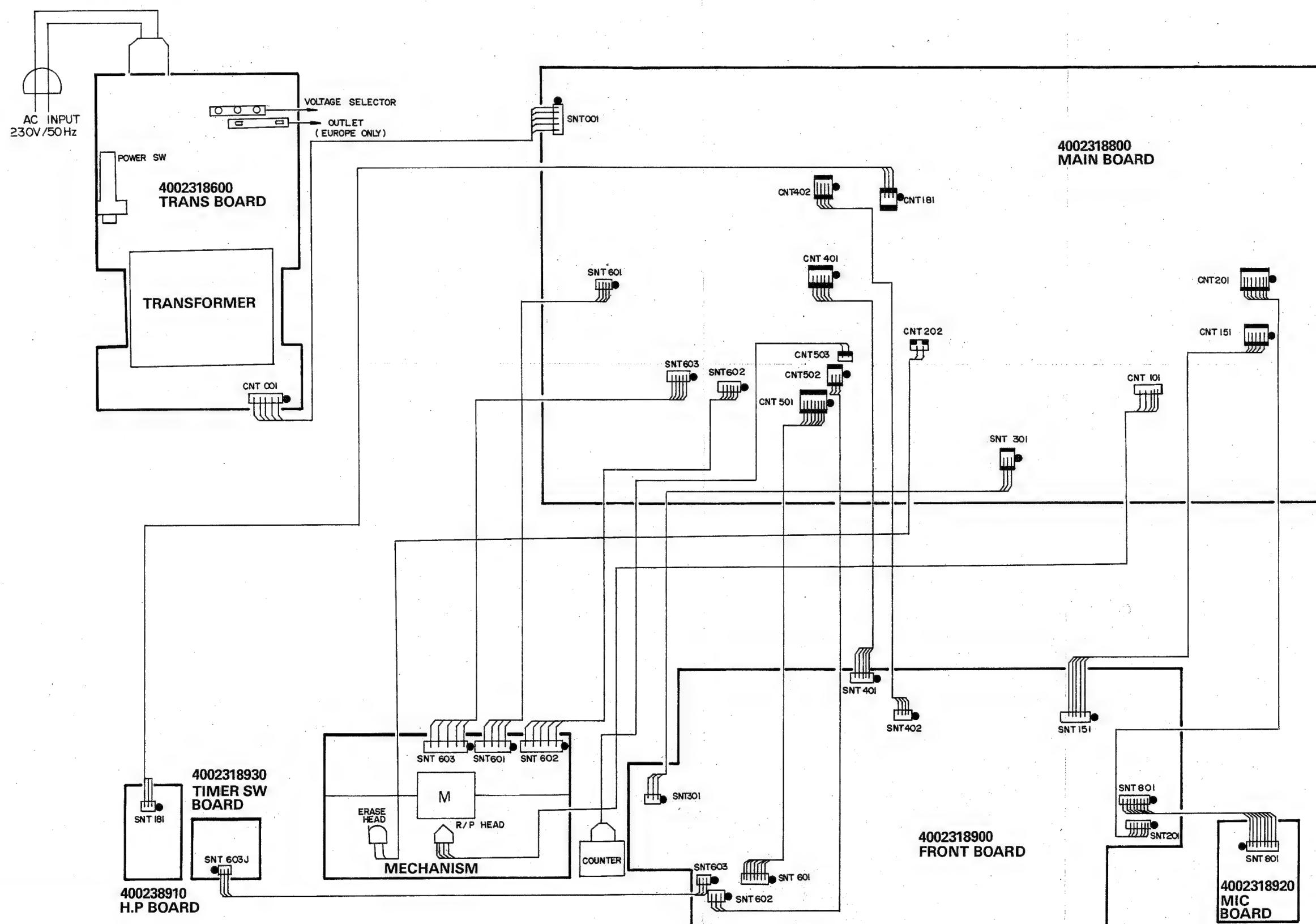
(TOP VIEW)



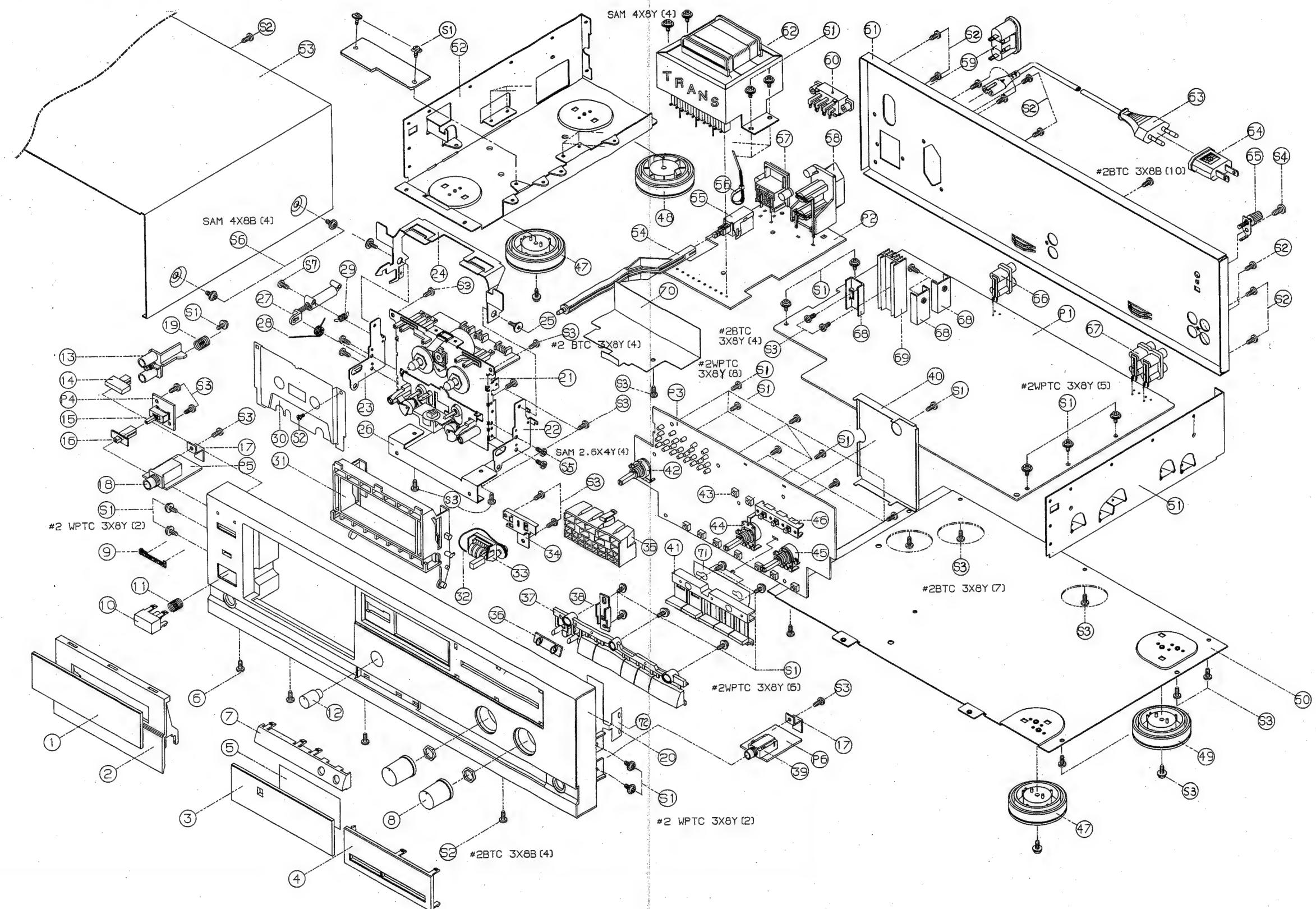
(BOTTOM VIEW)



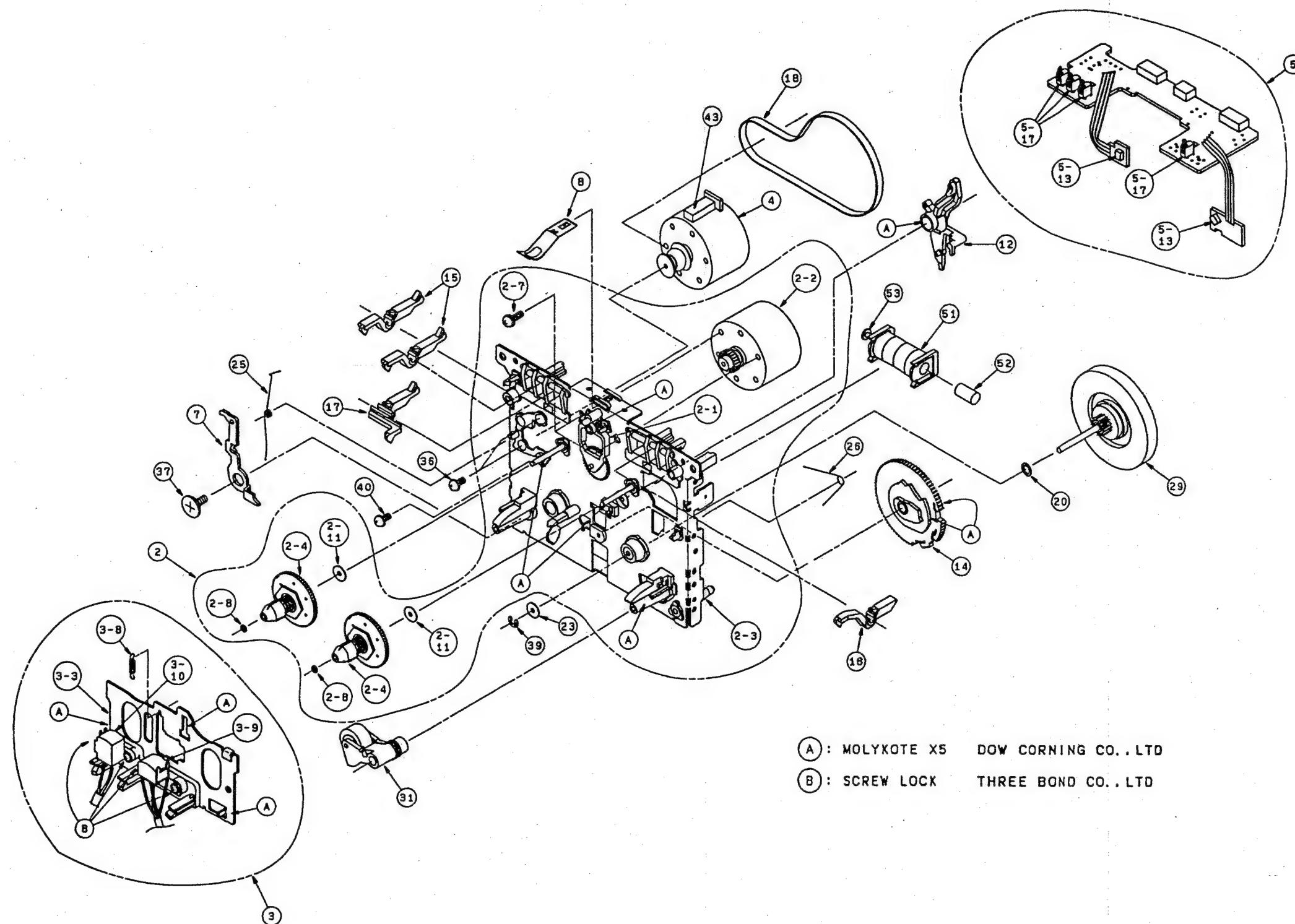
Wiring Diagram



Exploded View (Cabinet & Chassis)



Exploded View (Deck Mechanism Ass'y)



Electrical Parts List

PRODUCT SAFETY NOTICE: Products marked with Δ have special characteristics important to safety. If you replace any of these components, carefully read the product safety notice of this manual. Don't degraded the safety of the product through improper servicing. Remark meaning for version, therefore refer to power requirement of Specifications in this manual. Resistors & Capacitors tolerance, D ($\pm 5\%$), J ($\pm 0.5\%$), K ($\pm 10\%$), M ($\pm 20\%$), Z (+80%, -20%).

Ref. No	Part No.	Description	Remark
Main Board 4002318800			

Capacitors

C100L/R	3479210121	Electric SA	100 μ F	10V	M
C101L/R	3579681130	Ceramic	680pF	50V	J
C102L/R	3579612130	Ceramic	120pF	50V	J
C103L/R	3679223120	Mylar	0.022 μ F	50V	J
C104L/R	3479247971	Electric SA	4.7 μ F	50V	M
C105L/R	3679223120	Mylar	0.022 μ F	100V	J
C106L/R	3679102534	Ceramic	1000pF	50V	J
C107L/R	3679273120	Mylar	0.027 μ F	100V	J
C108-149		Not used !			
C150L/R	3679222120	Mylar	0.0022 μ F	100V	J
C151L/R	3479247971	Electric SA	4.7 μ F	50V	M
C152L/R	3479247971	Electric SA	4.7 μ F	50V	M
C153L/R	3679472120	Mylar	0.0047 μ F	100V	J
C154L/R	3679222120	Mylar	0.0022 μ F	50V	J
C155L/R	3679256871	Electric SA	0.56 μ F	50V	M
C156L/R		Not used !			
C157L/R	3479233871	Electric SA	0.33 μ F	50V	M
C158L/R	3679247971	Electric SA	4.7 μ F	50V	M
C159L/R	3479210071	Electric SA	10 μ F	50V	M
C160L/R	3579102130	Ceramic	0.001 μ F	50V	E
C161/C162	3479210121	Electric SA	100 μ F	10V	M
C163L/R	3479247971	Electric SA	4.7 μ F	50V	M
C164L/R	3579121130	Ceramic	120pF	50V	J
C165L/R	3479247971	Electric SA	4.7 μ F	50V	M
C166L/R	3679182120	Mylar	0.0018 μ F	100V	J
C171L/R	3579681130	Ceramic	680pF	50V	J
C172L/R	3579104530	Ceramic	0.1 μ F	50V	Z
C173-C180		Not used !			
C181L/R	3479247971	Electric SA	4.7 μ F	50V	M
C201L/R	3679153120	Mylar	0.015 μ F	100V	J
C202L/R	3479123120	Mylar	0.012 μ F	100V	J
C203L/R	3479210971	Electric SA	1 μ F	50V	M
C204/C205	3479210121	Electric SA	100 μ F	10V	M
C206L/R	3679153120	Mylar	0.015 μ F	100V	J
C207L/R	3479472120	Mylar	0.0047 μ F	100V	J
C208/C209		Not used !			
C210L/R	3479210171	Electric SA	10 μ F	50V	M
C211L/R	3479222871	Electric SA	0.22 μ F	50V	M
C212-250		Not used !			
C251L/R	3579103130	Ceramic	0.01 μ F	50V	Z
C252L/R	3679223120	Mylar	0.022 μ F	100V	J
C253L/R	3579821130	Ceramic	820pF	50V	J
C254L/R	3679273120	Mylar	0.027 μ F	100V	J
C255L/R	3579101130	Ceramic	100pF	100V	J
C256L/R	3579471250	Ceramic	470pF	500V	J
C257	3579080010	Ceramic	8pF	50V	C
C258L/R	3679473120	Mylar	0.047 μ F	100V	J
C301	3679473120	Mylar	0.047 μ F	100V	J
C302-C304	3479247971	Electric SA	4.7 μ F	50V	M
C305-C307		Not used !			
C308	3409222239	Electric SA	2200 μ F	25V	M
C309	3409210231	Electric SA	1000 μ F	25V	M

Ref. No	Part No.	Description	Remark
Connectors			
Coils			
L100	5528001020	Relay RY 12W-K	
L151L/R	2638301110	Dolby MPX Filter, 19kHz 85kHz	
L200L/R	2658501100	REC Trap, 85kHz	
L201L/R	2648601220	Inductor 6.3mH	
L251L/R	2638601240	Dolby HX-PRO	
L501	2638201250	Bias OSC, 85kHz	

Ref. No	Part No.	Description	Remark	Ref. No	Part No.	Description	Remark
Diodes							
D100	2058106100	1N400		R107L/R	3069272970	2.7k Ω	
D201/D202	2058306101	1N4148		R108L/R	3069103970	10k Ω	
D301-D304	2058106100	1N4002		R109L/R	3069103970	10k Ω	
D305-D309		Not used !		R148	3069273970	27k Ω	
D310/D311	2058106100	1N4002		R149	3069102970	1k Ω	
D312	2258522110	Zener DZ5.1BM		R151L/R	3069222970	2.2k Ω	
D313	2058306101	1N4148		R152L/R	3069222970	8.2k Ω	
D314/D317		Not used !		R153L/R	3069243970	24k Ω	
D315	2058106100	1N4002		R154L/R	3069561970	5600 Ω	
D316	2258522112	Zener DZ6.2BM		R155L/R	3069242970	2.4k Ω	
D318/D319	2058306101	1N4148		R156L/R	3069562970	5.6k Ω	
D320	2258522112	Zener DZ6.2BM		R157L/R	3069332970	3.3k Ω	
D401-D403	2058306101	1N4148		R161L/R	3069470970	47 Ω	
D601	2058306101	1N4148		R162L/R	3069202970	2k Ω	
D602	2258522112	Zener DZ6.2BM		R163L/R	3069473970	47k Ω	
D603	2058306101	1N4148		R164L/R	3069392970	3.9k Ω	
D604/D605	2058306101	1N4148		R165L/R	3069100970	10 Ω	
D606	2258522108	Zener DZ4.3BM		R166L/R	3069103970	10k Ω	
D607	2058306101	1N4148		R171	3069473970	47k Ω	
D651-D653	2058306101	1N4148		R172		Not used !	
D701-D706	2058306101	1N4148		R173	3069102970	1k Ω	
Fuses							
F1-F6	4255001010	Fuse Clip		R201L/R	3069103970	10k Ω	
F1-F2	5508302035	T 1A 250V		R202L/R	3069913970	91k Ω	
F3	5508302435	T 2A 250V		R203L/R	3069273970	27k Ω	
IC's							
IC101	2168020106	NJM 2068, Play		R204L/R	3069203970	20k Ω	
IC151	2168022123	CXA 1330S, Dolby		R205L/R	3069563970	56k Ω	
IC181	2168206103	KIA 6559S, Headphone		R206L/R	3069472970	4.7k Ω	
IC201	2168206103	KIA 6559S, REC		R207L/R		Not used !	
IC251	2168013111	μ PC1297CA, REC		R208	3069221970	220 Ω	
IC301	2168602120	MC7908, Regulator		R209L/R	3069151970	150 Ω	
IC302	2168620101	MC7908, Regulator		R211L/R		Not used !	
IC403	21						

Ref. No	Part No.	Description	Remark
R322	3069682970	6.8kΩ	
R401	3069222970	2.2kΩ	
R402	3069221970	220Ω	
R403	3069473970	47kΩ	
R404	3069103970	10kΩ	
R405	3069562970	5.6kΩ	
R406	3069473970	47kΩ	
R451	3069472970	4.7Ω	
R452	3069339370	39kΩ	
R453/R454	3069220370	22Ω	
R455	3069470370	47Ω	
R501L/R	3069473970	47kΩ	
R502	3069222970	2.2kΩ	
R503/R504	3069224970	220kΩ	
R505	3069334970	330kΩ	
R506	3069103970	10kΩ	
R601	3069102970	1kΩ	
R602	3069272970	2.7kΩ	
R603	3069103970	10kΩ	
R604	3069272970	2.7kΩ	
R605	3069103970	10kΩ	
R606/R607	3069102970	1kΩ	
R608		Not used!	
R609	3069473970	47kΩ	
R610	3069471970	47Ω	
R611	3069103970	10kΩ	
R612-R650		Not used!	
R651	3069473970	47kΩ	
R652	3069911970	91Ω	
R653	3069272970	2.7kΩ	
R654	3069822970	8.2kΩ	
R700-R702	3069222970	2.2kΩ	
R703/R704	3069103970	10kΩ	
R705-R707	3069222970	2.2kΩ	
R708-R715	3069473970	47kΩ	
R716	3069202970	2kΩ	
R717	3069103970	10kΩ	
R718	3069123970	12kΩ	
R719		Not used!	
R720	3069103970	10kΩ	
R721	3069563970	56kΩ	
R722-R724	3069103970	10kΩ	
R725	3069473970	47kΩ	
R726	3069224970	220kΩ	
R727	3069223970	22Ω	
R801	3039100472	10Ω 1W	
VR101L/R	3248020343	20k(B)	
VR201L/R	3248020343	20k(B)	
VR251L/R	3248020343	20k(B)	
VR281L/R	3248010343	10k(B)	
VR282L/R	3248050343	50k(B)	
Transistors			
Q101L/R	2208622108	DTC 114TS	
Q102	2008609102	MP6 A06	

Ref. No	Part No.	Description	Remark
Q151L/R	2208622108	DTC 114TS	
Q152L/R	2208622108	DTC 114TS	
Q153L/R	2008610102	2SD 1302S	
Q200L/R	2208622108	DTC 114TS	
-Q203L/R			
Q204L/R	2208622108	DTC 114TS	
Q205L/R	2208622108	DTC 114TS	
Q301	2208206105	KTA 1015Y	
Q302/Q305	2208622105	KTA 114YS	
Q303/Q306	2208622106	KTC 114YS	
Q304	2208606113	MPS A56	
Q401-Q403	2208606113	MPS A56	
Q404-Q405	2208622108	DTC 114TS	
Q406-Q408	2208206105	KTA 1015Y	
Q409-Q411	2208622106	DTC 114YS	
Q412	2208606114	MPS A06	
Q413-Q450		Not used!	
Q451	2028406117	KTC 2236AY	
Q501/Q502	2208622108	DTC 114TS	
Q601	2208606104	KTC 1815Y	
Q602	2208606114	MPS A06	
Q603	2208606104	KTC 1815Y	
Q604	2208606114	MPS A06	
Q605	2208622108	DTC 114TS	
Q606-Q650		Not used!	
Q651	2208606113	MPS A56	
Q652	2208206105	KTA 1015Y	
Q653	2208622106	DTC 114YS	
Q654	2208606114	MPS A06	
Q701	2208606113	MPS A06	
Q702	2208622108	DTC 114TS	
Q703	2208622105	DTA 114YS	
Q704-Q706	2208606112	2SD 1302S	
Q707-Q708	2208606113	MPS A56	
Q709/Q710	2208622108	DTC 114TS	
Q711	2208606113	MPS A56	
Q712	2208622108	DTC 114TS	
Q713		Not used!	
Q714/Q715	2208622108	DTC 114TS	
Other			
	3938101830	Resonator 4.0MHz	

Front Board 4002318900						
Capacitors						
C185	3579104534	Ceramic	0.1μF	50V	Z	Head Phone B'D
C801L/R	3479247971	Electric SA	4.7μF	50V	M	
C802L/R		Not used!				
C803L/R	35793221130	Ceramic	220pF	50V	J	
C804L/R	3579330130	Ceramic	33pF	50V	J	
C805L/R	3479247971	Electric SA	4.7μF	50V	M	
C806/C807	3479210121	Electric SA	100μF	10V	M	

Ref. No	Part No.	Description		Remark
C951L/R	3479247971	Electric SA 4.7μF 50V M		
C952L/R	3479247971	Electric SA 4.7μF 50V M		
C953L/R	3479210071	Electric SA 10μF 50V M		
Connectors				
SNT151	4428525390	Cable Holder 5P		
SNT181	4428525370	Cable Holder 3P		
SNT201	4428525400	Cable Holder 6P		
SNT301	4428525370	Cable Holder 3P		
SNT401	4428525390	Cable Holder 5P		
SNT402	4428525380	Cable Holder 4P		
SNT601	4428525410	Cable Holder 7P		
SNT602	4428525370	Cable Holder 3P		
SNT603	4428525370	Cable Holder 3P		
SNT603J	4428525370	Cable Holder 3P		
SNT801	4428525420	Cable Holder 8P		
SNT801J	4428525420	Cable Holder 8P		
	4119203206	Cable Slat 3P 200mm		
	4119203366	Cable Slat 3P 360mm		
	4119204306	Cable Slat 4P 300mm		
	4119205246	Cable Slat 5P 240mm		
	4119206206	Cable Slat 6P 200mm		
	4119207206	Cable Slat 7P 200mm		
	4119208146	Cable Slat 8P 140mm		
Diodes				
D950L/R	2371124501	LED SLR-34YCD		
D951/D952	2058306101	1N4148		
D951L/R	2371124501	LED SLR-34YCD		
-D954L/R				
D955L/R	2371124701	LED SLR-34URC		
-D957L/R				
D958	2371124701	LED SLR-34URC		
D959-D961	2371124501	LED SLR-34YCD		
D962	2371124701	LED SLR-34 URC		
D963-D966	2371124501	LED SLR-34YCD		
IC's</b				

Mechanical Parts List (Cabinet & Chassis)

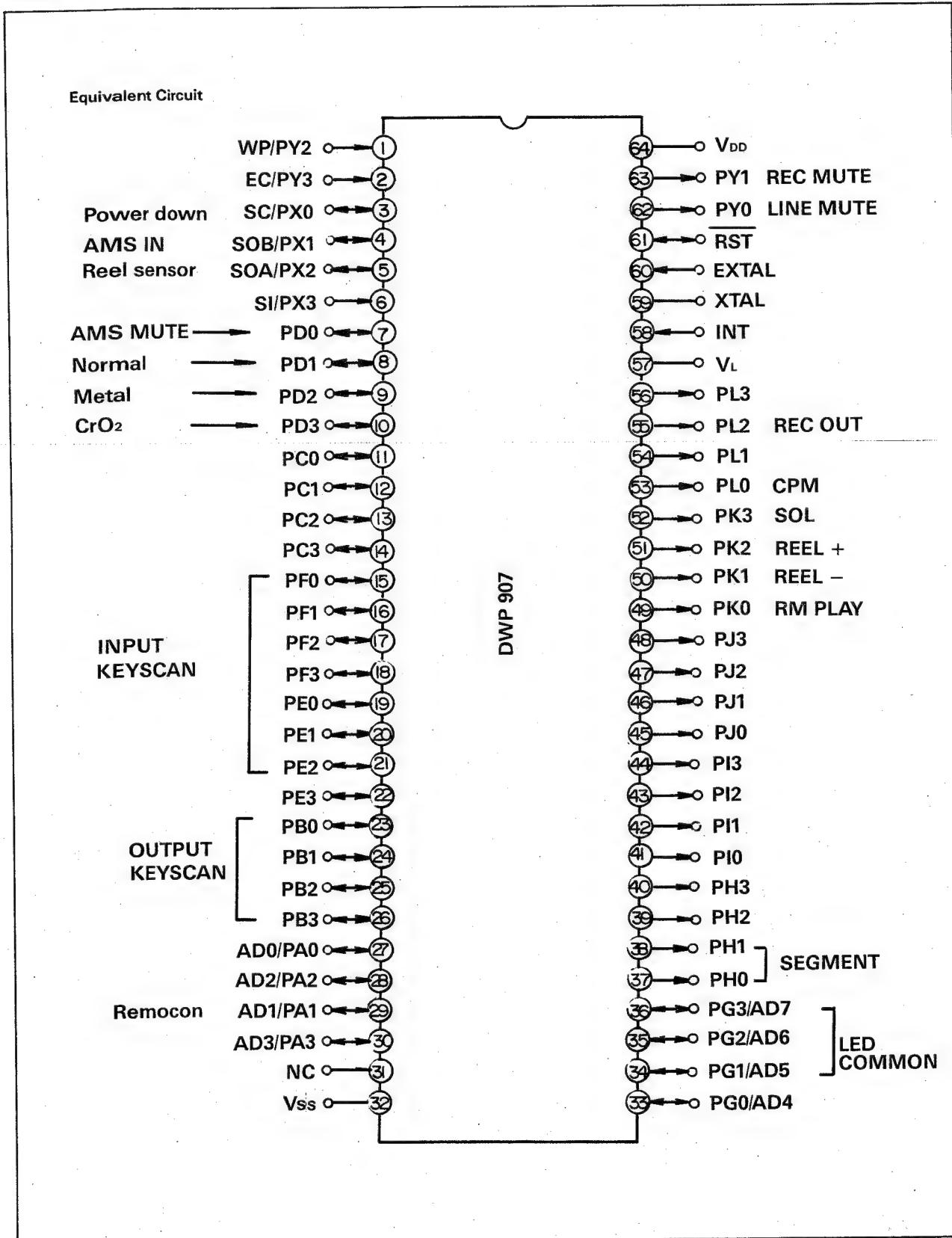
No.	Description	Parts No.	Q'ty	Remark
1	Window Deck	048555032011	1	
2	Door Deck	048563004711	1	
3	Window LED	048555033911	1	
4	Capacitor Decor, C	048543034811	1	
5	Diffuser LED	8535031510	1	
6	Shield Fence, VR	6165137810	1	
7	Capacitor Decor, A	048543029811	1	A,B
8	Knob Rotary,A	048543030011	2	
9	Badge	048535031911	1	
(9)	Badge	048535032511	1	Domestic
10	Button Power	8545074310	1	
11	Spring Button Power	6555004380	1	
12	Knob Rotary, B	048543030111	1	
13	ARM Eject	7013000410	1	
14	Knob Eject	8545076110	1	
15	Switch Slide	4618006710	1	
16	Knob Slide	8545076510	1	
17	Bracket Jack Phone	6505098810	2	
18	Jack Phone	4438005010	1	
19	Spring Eject Button	6555005630	1	
20	Panel Front	048501018911	1	
21	Mechanism Deck	5708011410	1	
22	Bracket Mechanism, R	6503017010	1	
23	Bracket Mechanism, L	6503016920	1	
24	Bracket Eject ARM	6503017210	1	
25	Screw Bushing	8155001310	2	
26	Bracket Mechanism, B	6503017110	1	
27	Damper Air	6308001510	1	
28	Spring Door	6555603110	1	
29	Spring Eject	6555304420	1	
30	Cover Mechanism	046123407711	1	
31	Case Cassette	8562001910	1	A,B
32	Belt	7165000610	1	
33	Counter Tape	5318003010	1	
34	Bracket Counter Tape	6503017410	1	
35	Holder LED	6513004310	1	
36	Bezel	048525007411	1	A,B
37	Button Tact, B	048543030211	1	Domestic, A
38	Bracket Support	6505108210	1	Domestic, A
39	Jack MIC	4438005510	1	
40	Shield Fence	6165137510	1	
41	Button Tact, C	8543030410	1	
42	VR Rotary	3208058410	1	
43	Switch Tact	4658003710	9	A,B
44	VR Rotary	3208059810	1	
45	VR Rotary	3208060110	1	
46	Switch Push	4628054210	1	Domestic
47	Foot, Gold	046033101711	2	Domestic
(47)	Foot, Gold	046033101611	2	
48	Foot, Gold	046033101711	1	Domestic
(48)	Foot, Gold	6033101810	1	A
(48)	Foot, Gold	046033101811	1	B,C,D,E,F
49	Foot, Gold	046033101711	1	Domestic
(49)	Foot, Gold	6033101610	1	A
(49)	Foot, Gold	046033101611	1	B,C,D,E,F
50	Cover Bottom	6122416010	1	
51	Frame Side, R	6123620120	1	
52	Frame Side, L	6122630610	1	
53	Cover Top, Black	046122020311	1	
54	Shaft Switch	6303001610	1	
55	Switch Power	4628056710	1	
56	Cable Tie	6528000410	1	
57	AC Socket, Black	4448003010	2	DOM,C,D,E,F
(57)	AC Socket, Black	4448003110	2	A,B

Mechanical Part List (Deck Mechanism Ass'y)

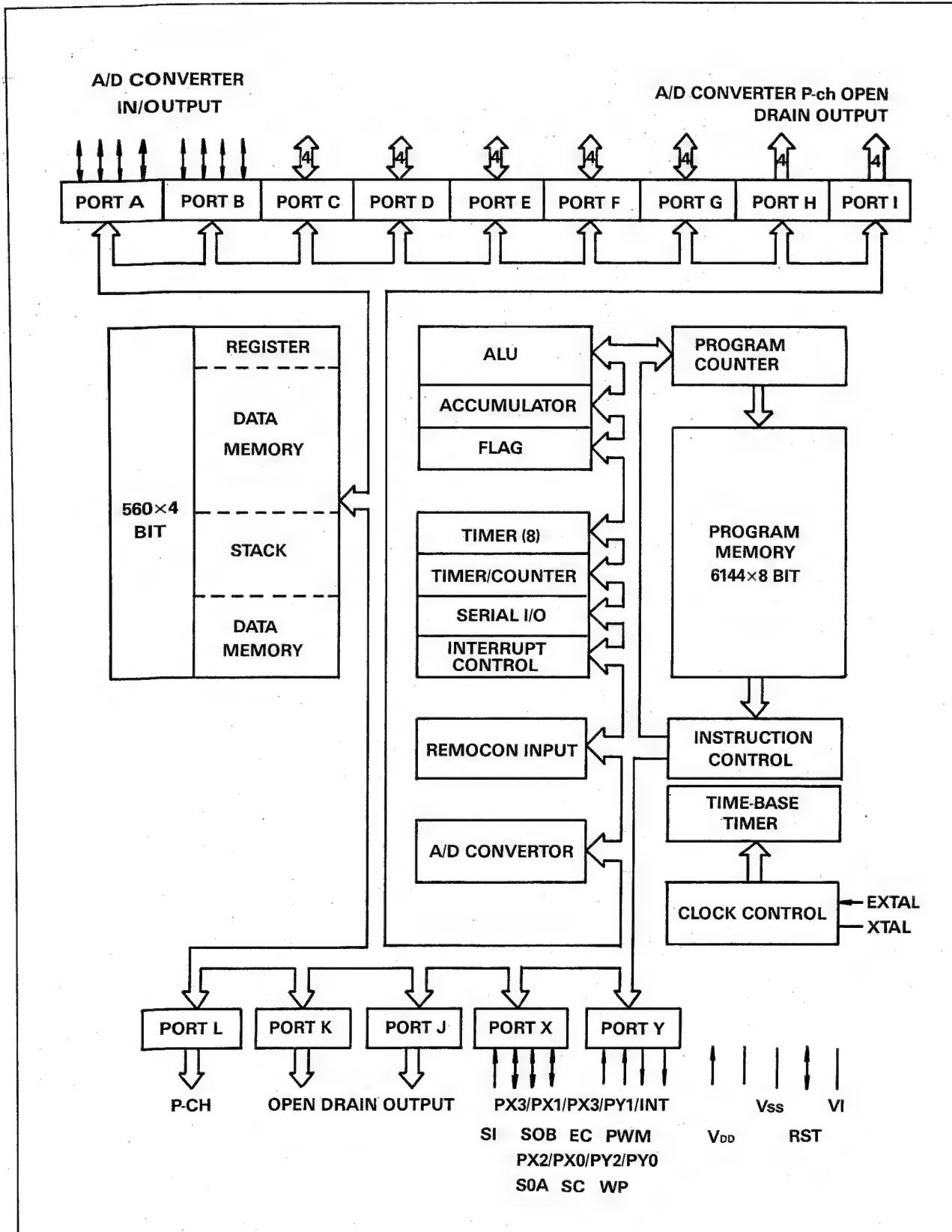
No.	Part No.	Description	Q'ty	Remark
1		Not used !		
2	F511-457	Block Chassis	1	
2-1	F517-049	Block Idler	1	
2-2	F564-280	Block Motor Reel	1	
2-3	F612-156	Block Base Chassis	1	
2-4	F623-037	Block Base Reel	2	
2-5/2-6		Not used !		
2-7	FG166-11A	Screw	2	
2-8	FJ111-17	Washer	2	
2-9/2-10		Not used !		
2-11	UJ12V-11	Polyslider	2	
3	F513-625	Block Plate Head	1	
3-1/3-2		Not used !		
3-3	FC52E-44	Base Head	1	
3-4/3-7		Not used !		
3-8	FK26N-14	Spring Base Head	1	
3-9	FU16S-11	R/P Head (HAVEH4405A)	1	
3-10	FU192-11	Connector Wire (R/P)	1	
3-11	WH55L-05A	Connector Wire (E)	1	
3-12	WH55M-05A	Block Motor Main	1	
4	F525-269	Block PCB Control	1	
5	F567-350	Not used !	1	
5-1/5-12		Not used !		
5-13	AW13F-00	Sensor (SPI 335-34-FG)	2	
5-14/5-16		Not used !		
5-17	UE16E-11	Push Switch	4	
6		Not used !		
7	FC39S-33	Arm Eject Preventive (L)	1	
8	FC52H-12	Spring Cassette Pushing	1	
9~11		Not used !		
12	FD45G-12	Arm Play	1	
13		Not used !		
14	FD45B-15	Gear Cam	1	
15	FD44T-14	Lever (REC SW)	2	
16	FD44Y-12	Lever (Pack SW)	1	
17	FD44V-12	Lever (Metal SW)	1	
18	FF17W-21	Belt Main	1	
19		Not used !		
20	FJ111-30	Polyslider	1	
21/22		Not used !		
23	FJ111-14	Polyslider	1	
24		Not used !		
25	FK28M-15	Spring Eject Preventive (L)	1	
26	FK28R-11	Spring Sride	1	
27/28		Not used !		
29	FR22D-11	Ass'y Flywheel	1	
31	FR20L-21A	Ass'y Pinch Roller (R)	1	
32~35		Not used !		
36	FG114-14	Screw	2	
37	UG15S-11A	Screw	1	
38		Not used !		
39	UG13U-15	E-Ring	1	
40	UG12H-16	Screw	1	
41		Not used !		
42		Not used !		
43	FF17C-12	Cushion	1	
44~50		Not used !		
51	F765-263	Block Solenoid	1	
52	FL39H-12A	Iron Core	1	
53	FL39K-12	Plunger		

IC Lead Identification and Internal Diagram

DWP907: IC701

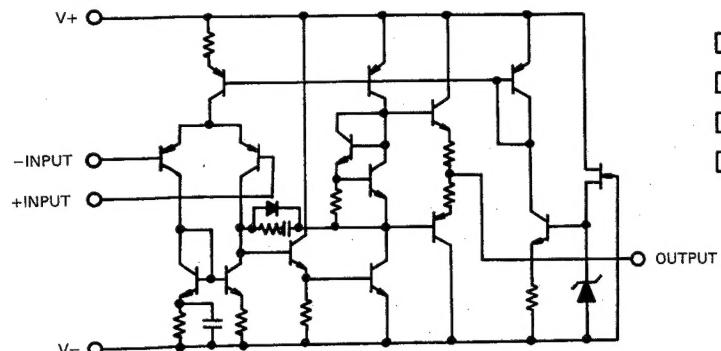


CPU BLOCK DIAGRAM

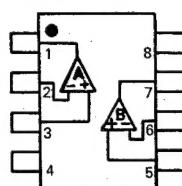


NJM 2068 — (PB AMP): IC101

Equivalent Circuit



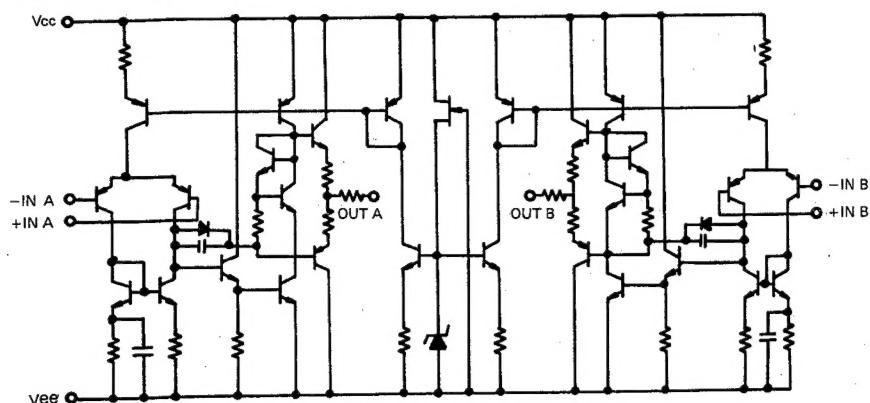
(TOP VIEW)



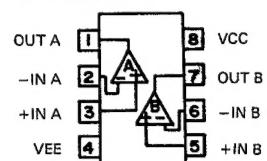
1. A OUTPUT
2. A -INPUT
3. A +INPUT
4. B+ INPUT
5. B- INPUT
6. B+ INPUT
7. B OUTPUT
8. V+

KIA 4559S (6559) — REC AMP, HEADPHONE AMP, MIC AMP : IC181, IC201, IC801

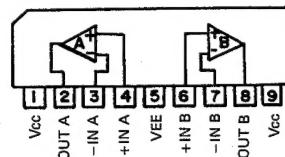
Equivalent Circuit



KIA 4559P, KIA 4559F

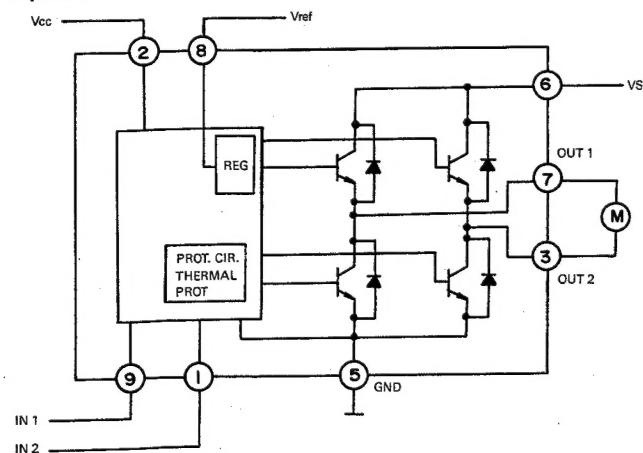


KIA 4559S



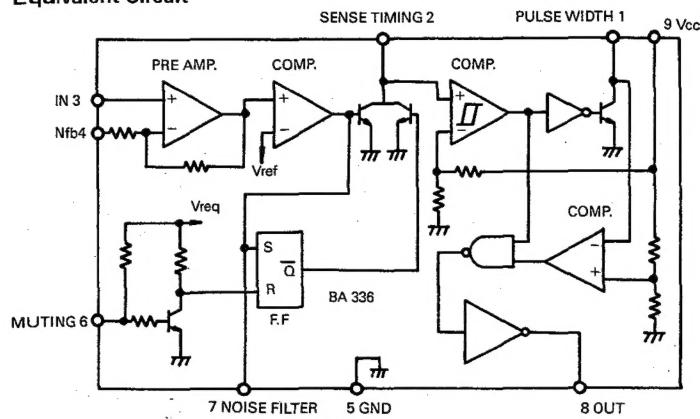
TA 7291S (MOTOR DRIVER): IC601

Equivalent Circuit



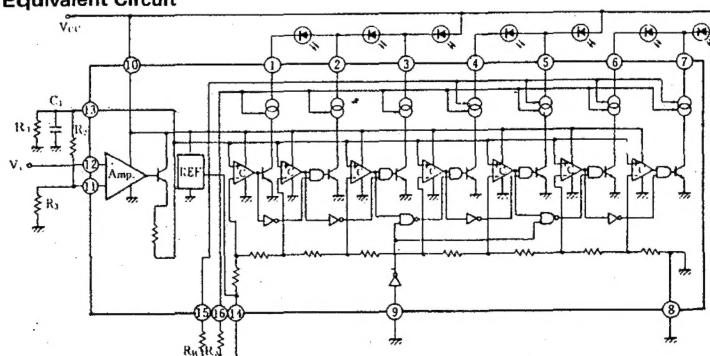
BA 336 (AMS IC): IC703

Equivalent Circuit



AN6882 (LED DRIVER): IC901

Equivalent Circuit



A

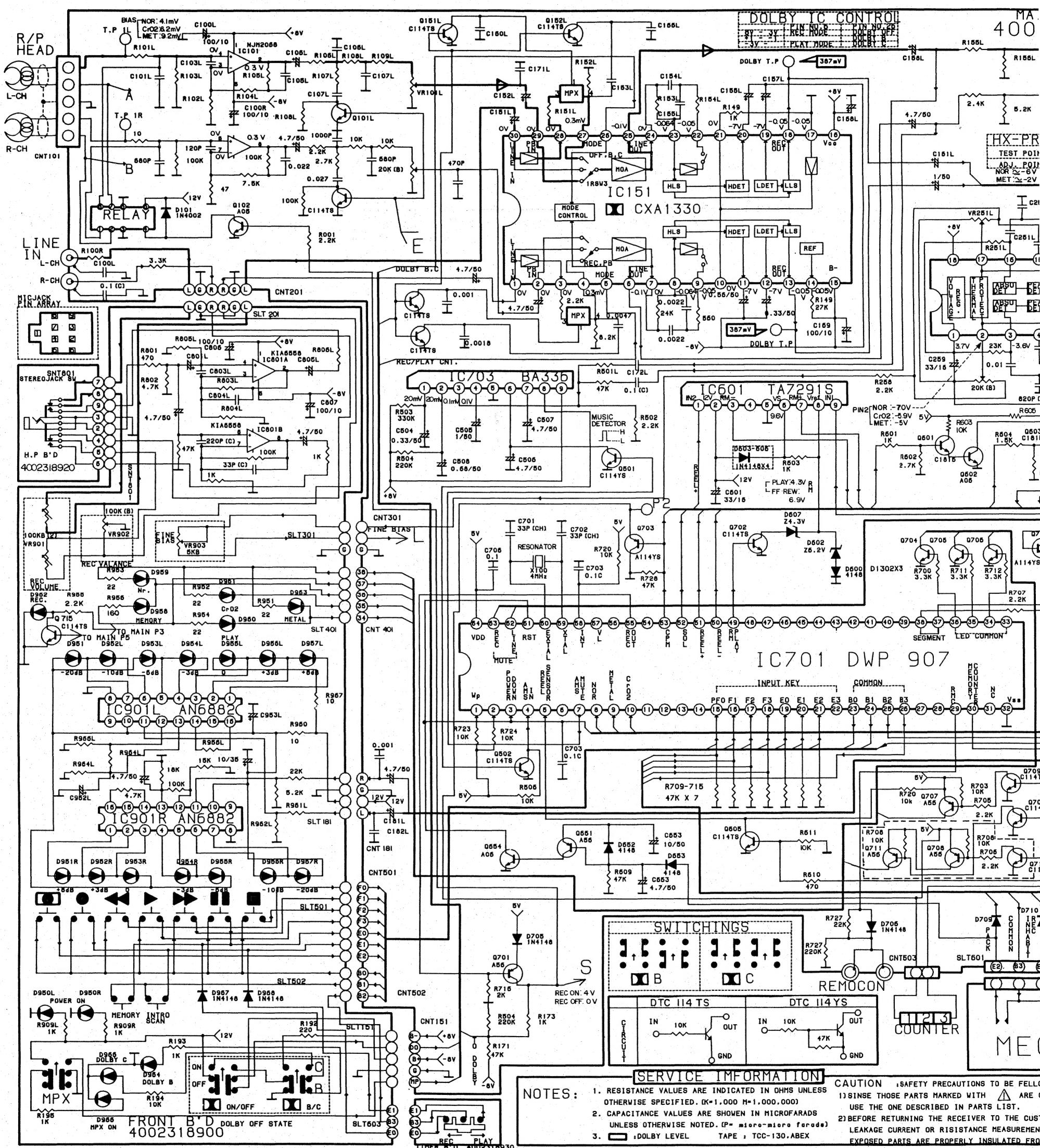
B

C

D

Schematic Diagram

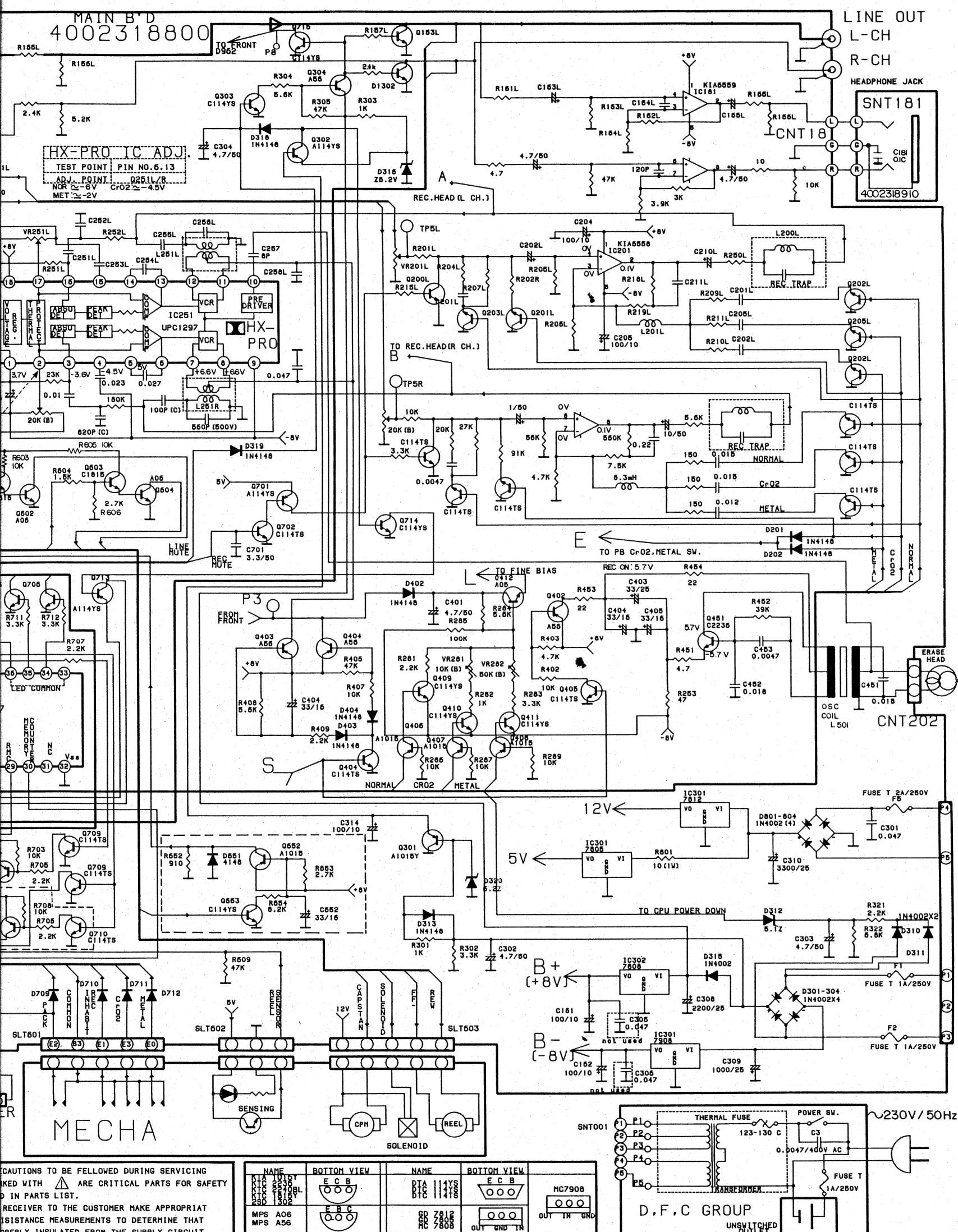
DS-3010C



E F G

Diagram

OC



CAUTIONS TO BE FOLLOWED DURING SERVICING
WITH ARE CRITICAL PARTS FOR SAFETY
IN PARTS LIST.

RECEIVER TO THE CUSTOMER MAKE APPROPRIATE
DISTANCE MEASUREMENTS TO DETERMINE THAT
DEFLY INSULATED FROM THE SUPPLY CIRCUIT.

NAME	BOTTOM VIEW	NAME	BOTTOM VIEW
KTC 2212		KTC 1815	
KTC 2210BL		KTC 1815Y	
2SD 3002		GD 7812	
MPS A06		HC 7808	
MPS A56			

